Amendments To The Claims

1-5. (Canceled)

- 6. (Withdrawn) A method, comprising:
 - a) providing:
 - i) a patient implanted with a device, wherein said device comprises;
 - 1) a implantable pacemaker element; and
 - 2) a plurality of atrial and ventricular pacing leads connected to said pacemaker element, wherein said pacing leads are configured for simultaneous activation and coursing to the ventricles and atria; and
 - ii) a plurality of sensing leads connected to said pacemaker coursing to the ventricles and atria;
 - initiating one or more pacing bursts by said pacemaker element, wherein said ventricles and atria are simultaneously paced; and
 - detecting an earliest arriving electrical signal following termination of said pacing bursts.
- 7. (Withdrawn) The method of Claim 6, wherein prior to step b) a cardiac arrhythmia is detected in said patient.
- 8. (Withdrawn) The method of Claim 6, wherein said earliest arriving electrical signal is from the ventricles.
- 9. (Withdrawn) The method of Claim 6, wherein said earliest arriving electrical signal is from the atria.
- 10. (Withdrawn) The method of Claim 6, further comprising step d) defibrillating said ventricles under conditions such that normal sinus rhythm is restored.

11-26. (Canceled)

- 27. (Previously Presented) An implantable cardiac defibrillator device, comprising:
 - an implantable pacemaker, wherein said pacemaker is configured to generate simultaneous anti-tachycardia pacing bursts such that said pacing bursts generate a blanking period; further comprising
 - b) an atrial lead and a ventricular lead <u>attached to said device</u>, said atrial lead and said ventricular lead further comprising distal tip electrodes configured to deliver <u>said</u> simultaneous anti-tachycardia pacing bursts <u>and detect an earliest arriving electrical signal</u> and wherein said <u>implantable cardiac defibrillator</u> device is configured to determine [[an]] <u>said</u> earliest arriving electrical signal detected by <u>said atrial lead distal tip electrodes or said ventricular lead distal tip electrodes</u> following <u>said</u> blanking period <u>resulting from said pacing bursts</u>; wherein said earliest arriving electrical signal diagnoses an origin of an arrhythmia;
 - b. an implantable cardiac defibrillator attached to said pacemaker; and
 - c) a timing device connected to said pacemaker, said timing device configured to identify that said origin of an arrhythmia is selected from the group consisting of a supraventricular tachycardia, a ventricular tachycardia, and an atrioventricular nodal reentrant tachycardia.
- (Previously Presented) The device of Claim 27, wherein said pacemaker further comprises a microprocessor configured to initiate said pacing burst.
- (Previously Presented) The device of Claim 27, wherein said pacemaker generates said anti-tachycardia pacing burst.
- 30. (Canceled)

- 31. (Previously Presented) The device of Claim 27, wherein said atrial lead and said ventricular lead further comprise defibrillation electrodes.
- 32. (Canceled)
- 33. (Previously Presented) The device of Claim 27, wherein said pacemaker further comprises a storage memory connected to said atrial and ventricular leads.
- 34. (Previously Presented) The device of Claim 31, wherein at least one of said defibrillation electrodes is configured to convert an abnormal heart rhythm into normal sinus rhythm.
- 35. (Previously Presented) The device of Claim 27, wherein said atrial lead and said ventricular lead are quadripolar.
- 36. (Previously Presented) The method of claim 27, wherein said atrial lead and said ventricular lead further comprise separate conductors.
- 37. (Currently Amended) An implantable cardiac defibrillator device, comprising:
 - an implantable pacemaker, wherein said pacemaker is configured to generate simultaneous anti-tachycardia pacing bursts such that said pacing bursts generate a blanking period; further-comprising
 - b) at least one atrial lead and at least one ventricular lead <u>attached to said device</u>, said at least one atrial lead and said at least one ventricular lead further comprising distal tip electrodes configured to deliver <u>said</u> simultaneous anti-tachycardia pacing bursts and wherein said <u>implantable cardiac defibrillator</u> device is configured to determine an earliest arriving electrical signal detected by <u>said atrial-lead distal tip electrodes or said ventricular-lead distal tip electrodes</u> following <u>said</u> blanking period <u>resulting from said pacing bursts</u>, wherein said earliest arriving electrical signal diagnoses an origin of an arrhythmia;

- an implantable cardiac defibrillator attached to said pacemaker; and
- c) a timing device connected to said pacemaker, said timing device configured to identify that said diagnosed origin of an arrhythmia is selected from the group consisting of a supraventricular tachycardia, a ventricular tachycardia and an atrioventricular nodal reentrant tachycardia.
- 38. (Previously Presented) The device of Claim 37, wherein said pacemaker further comprises a microprocessor configured to initiate said pacing burst.
- 39. (Previously Presented) The device of Claim 37, wherein said pacemaker generates said anti-tachycardia pacing burst.
- 40. (Previously Presented) The device of Claim 37, wherein said at least one atrial lead and said at least one ventricular lead further comprise defibrillation electrodes.
- 41. (Previously Presented) The device of Claim 37, wherein said pacemaker further comprises a storage memory connected to said atrial and ventricular leads.
- 42. (Canceled)
- 43. (Previously Presented) The device of Claim 37, wherein said at least one atrial lead and said at least one ventricular lead are quadripolar.
- 44. (Previously Presented) The method of claim 37, wherein said at least one atrial lead and said at least one ventricular lead further comprise separate conductors.